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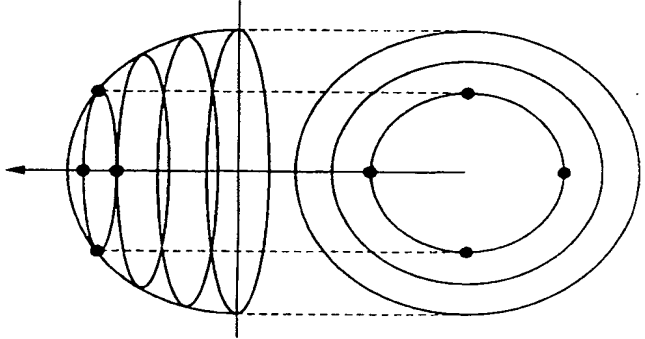
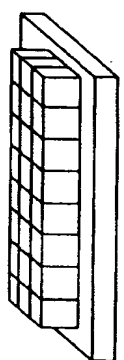
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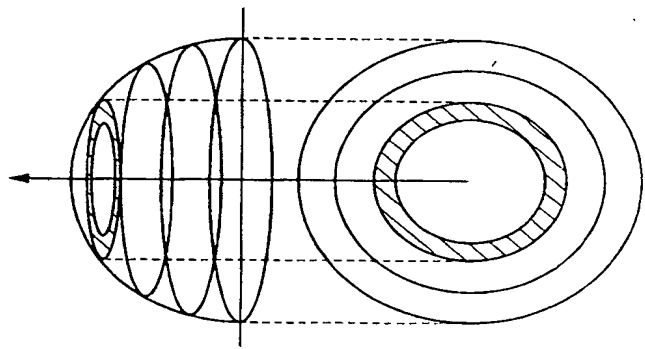
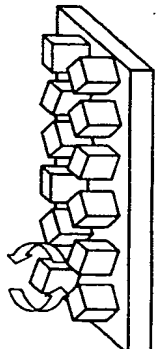
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FIG. 1

EPITAXIAL CRYSTAL
COMPLETE ORIENTATION



ONE-AXIS ORIENTATION
ROTATION



MULTI-CRYSTAL
RANDOM ORIENTATION

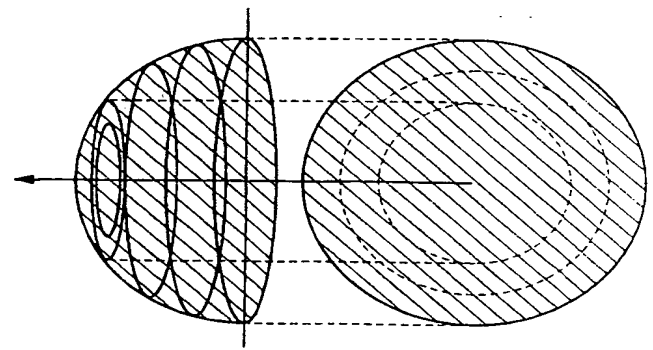
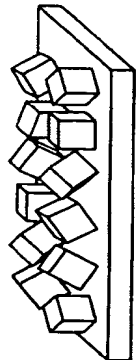


FIG. 2A

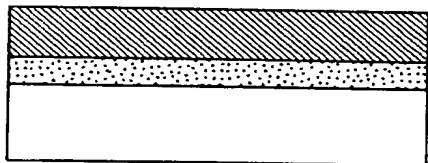


FIG. 2B

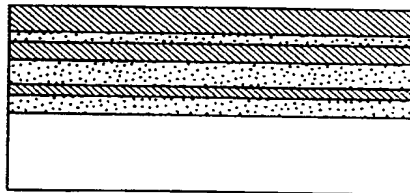


FIG. 2C

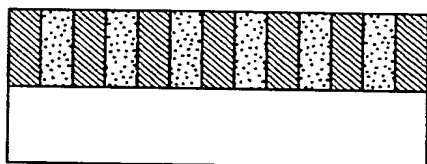


FIG. 2D

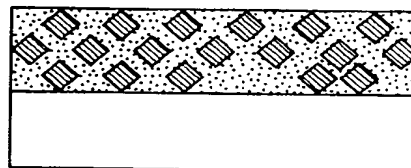


FIG. 2E

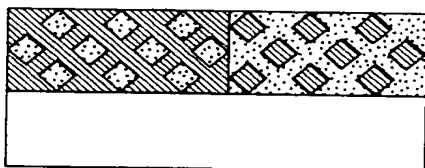


FIG. 3

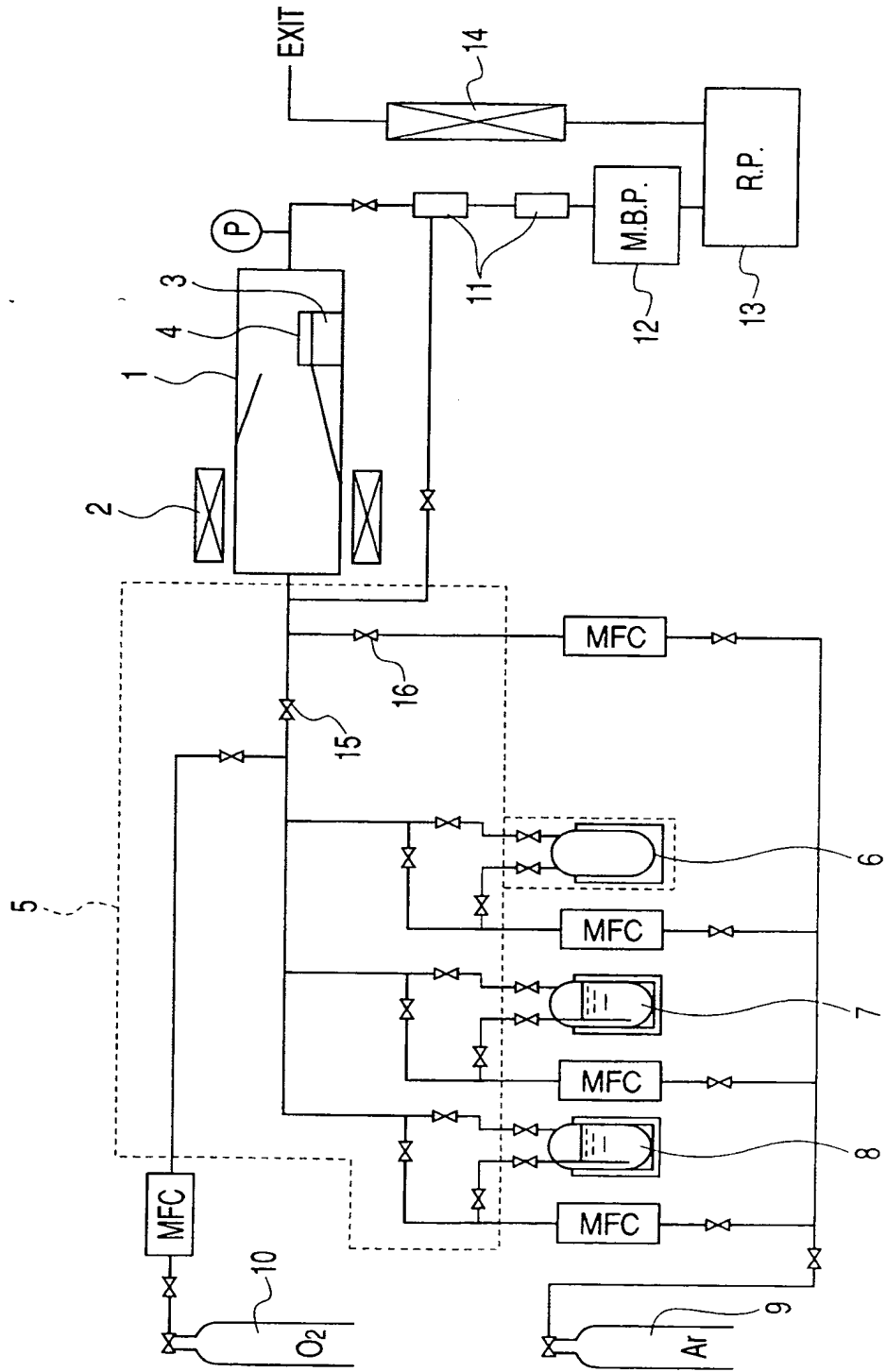


FIG. 4

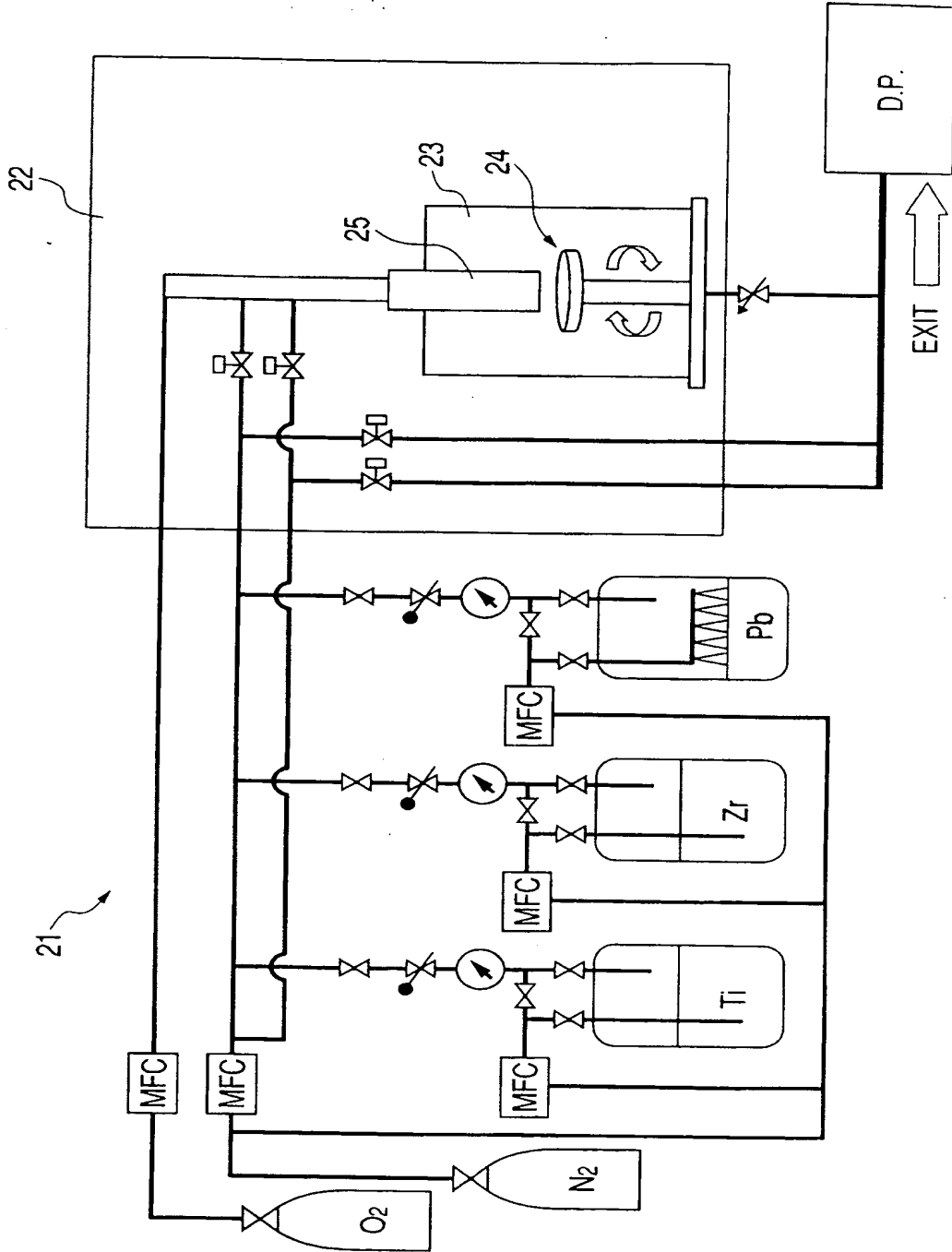


FIG. 5

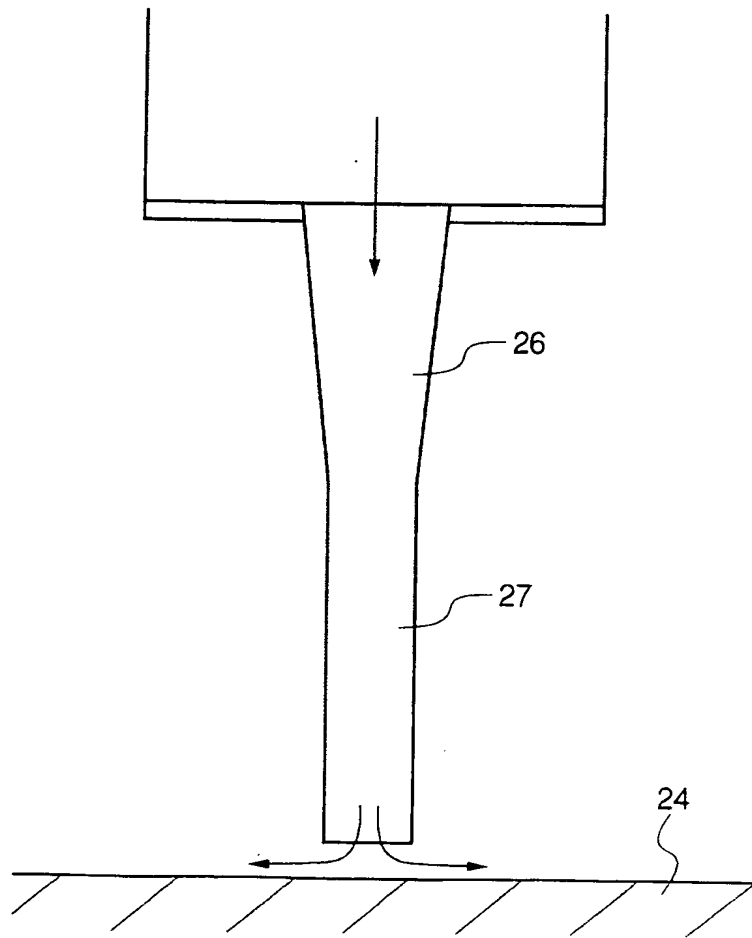


FIG. 6

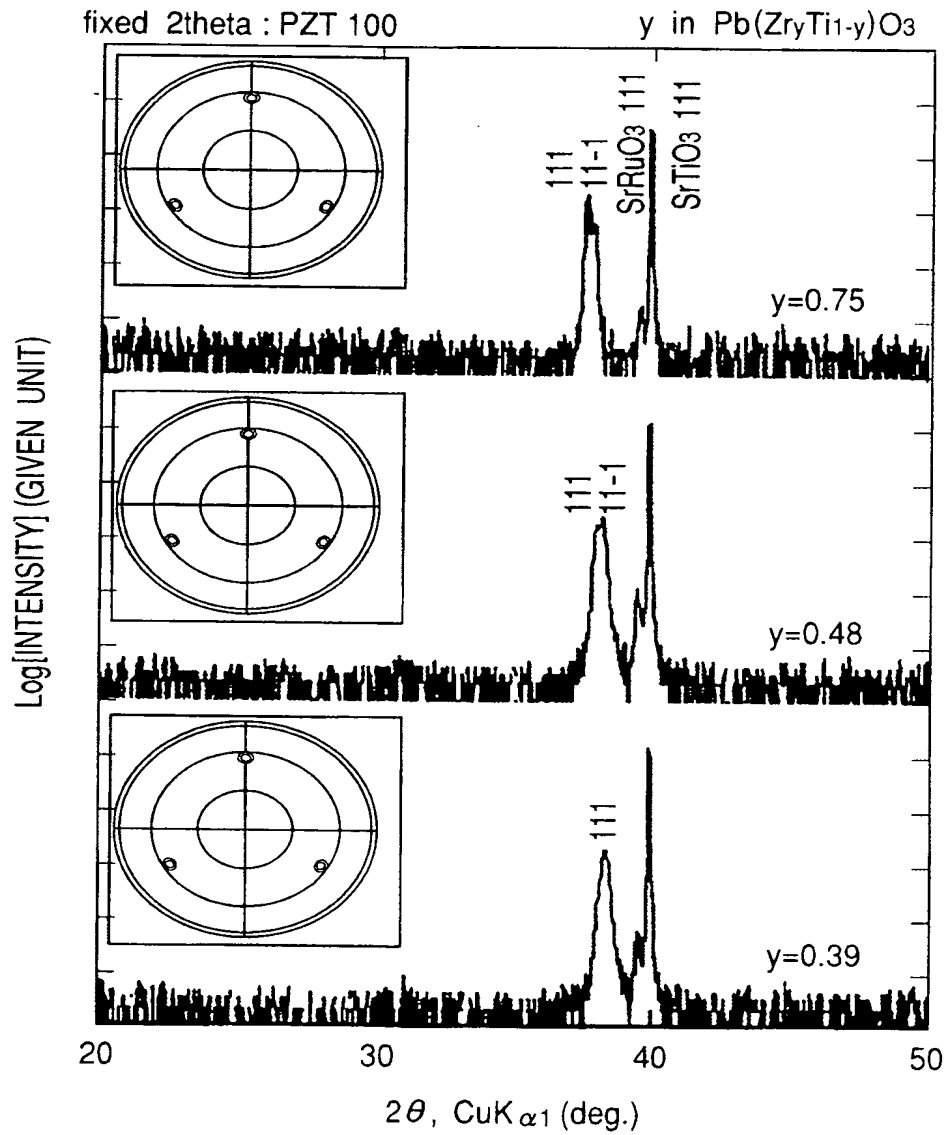


FIG. 7

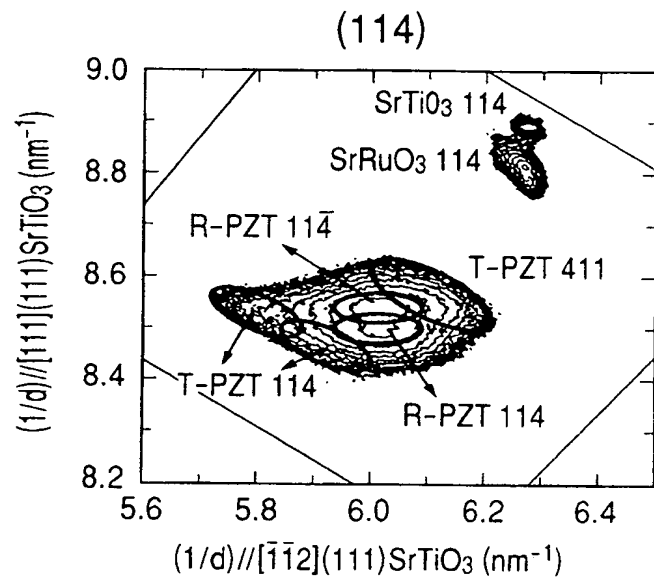
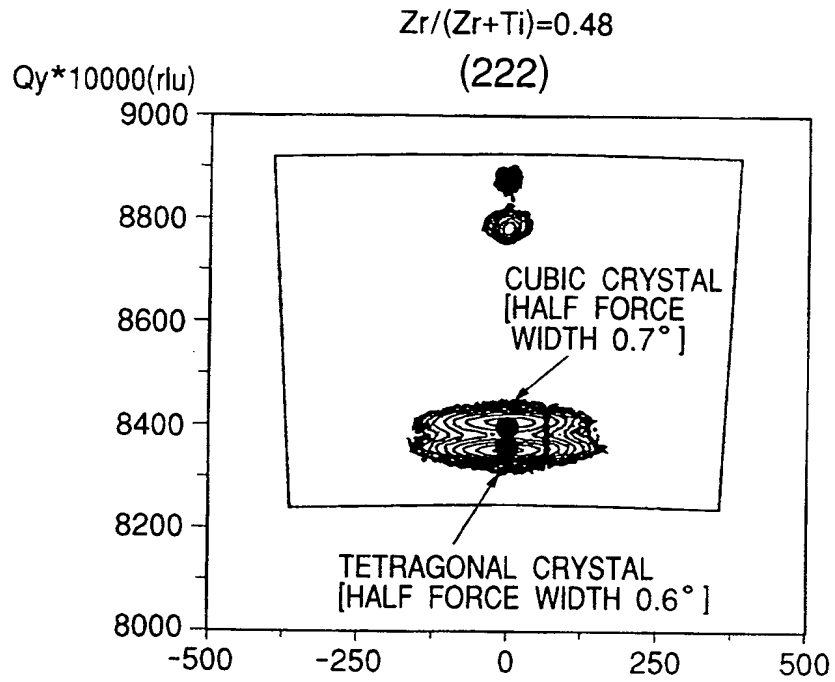


FIG. 8

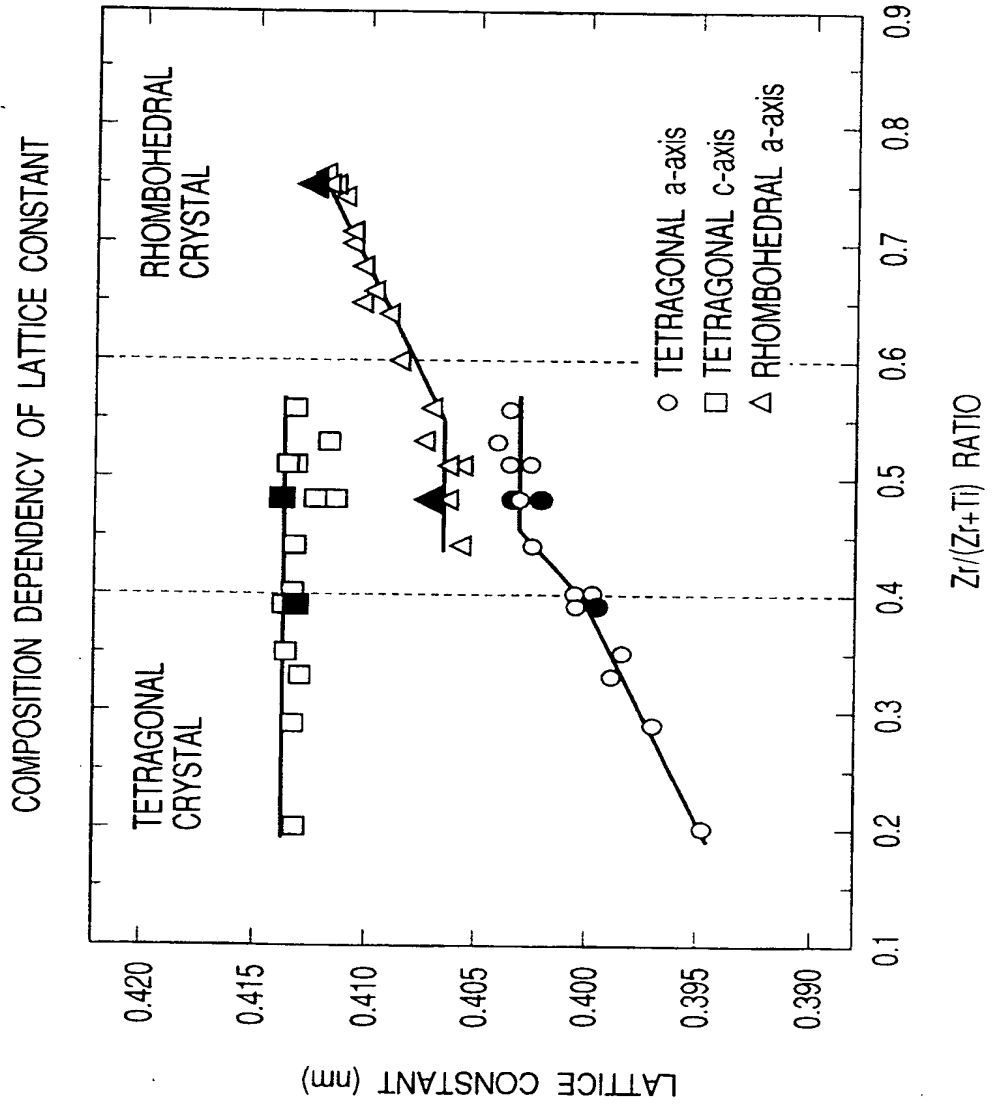


FIG. 9

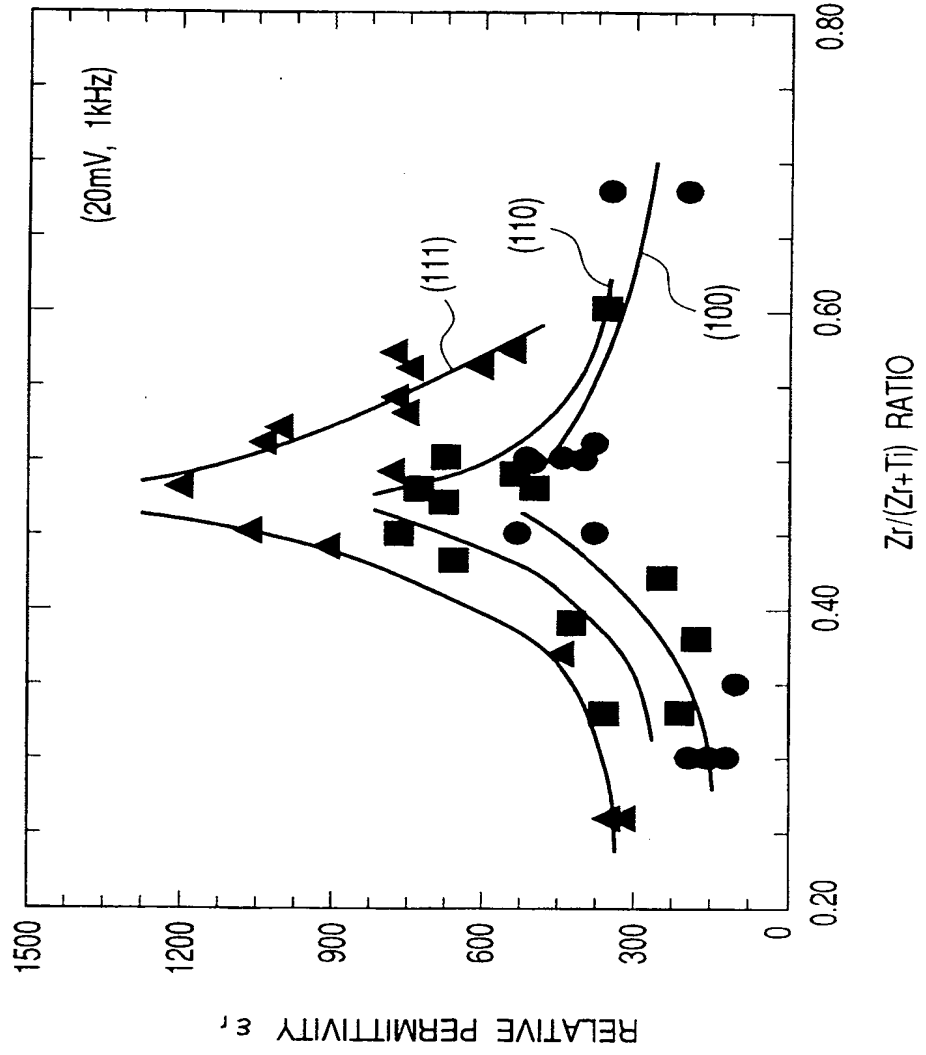


FIG. 10

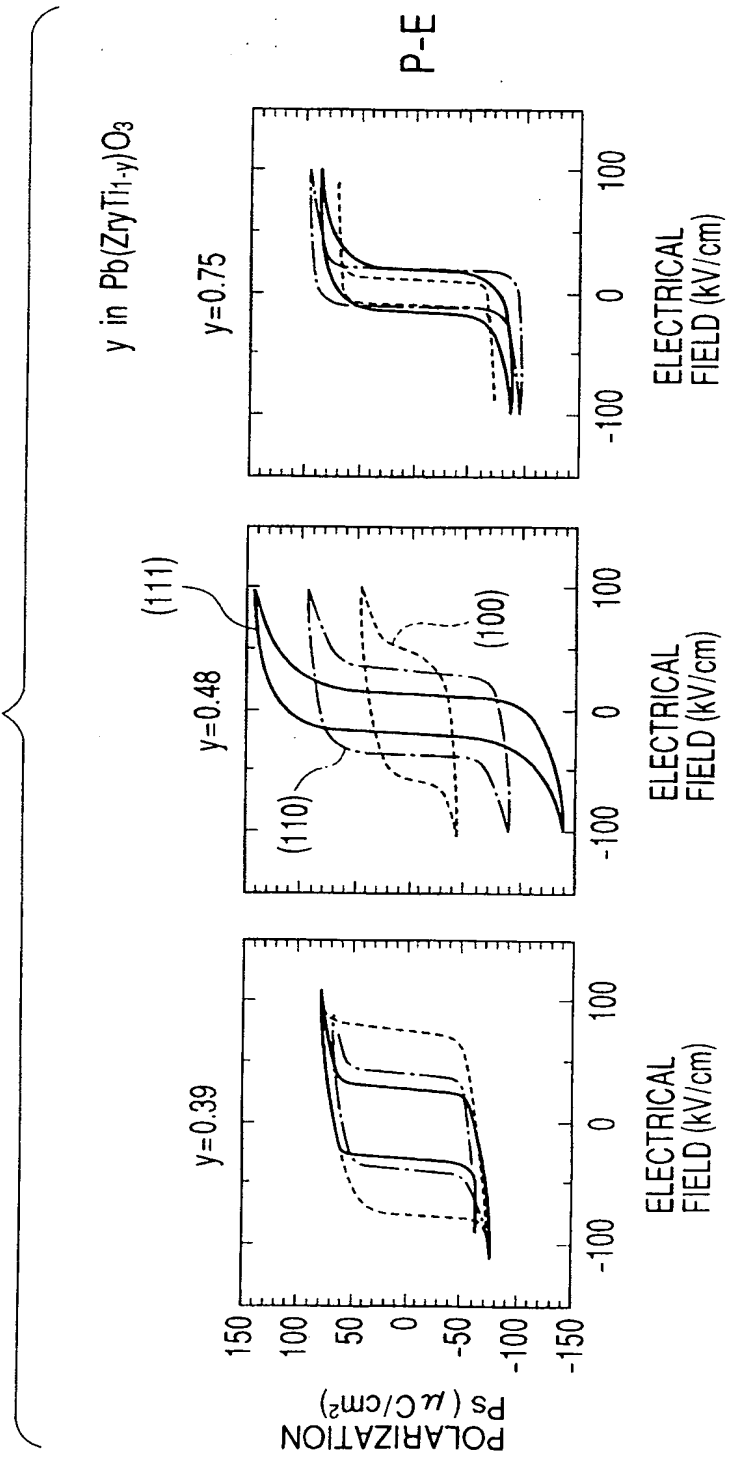


FIG. 11

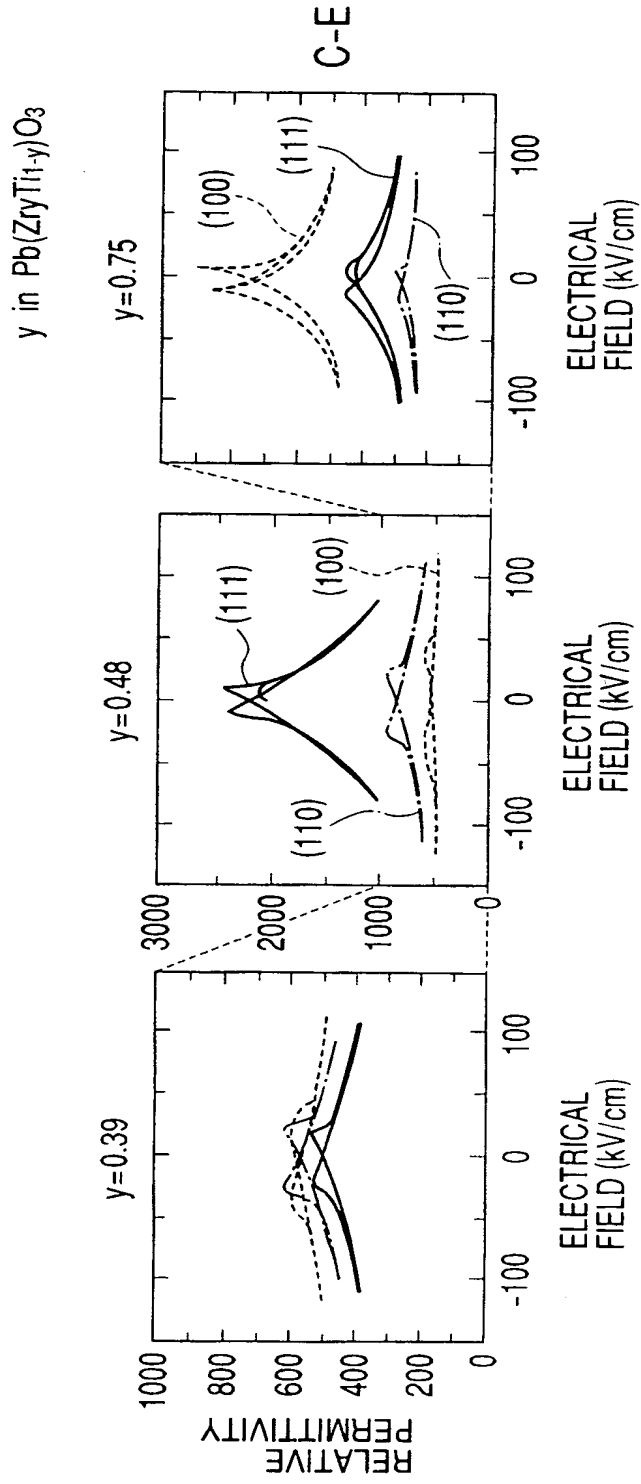
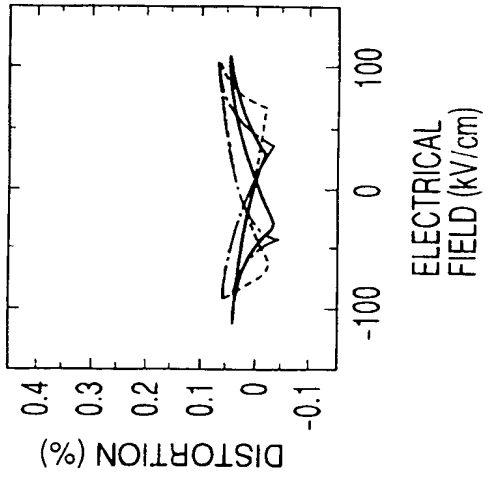


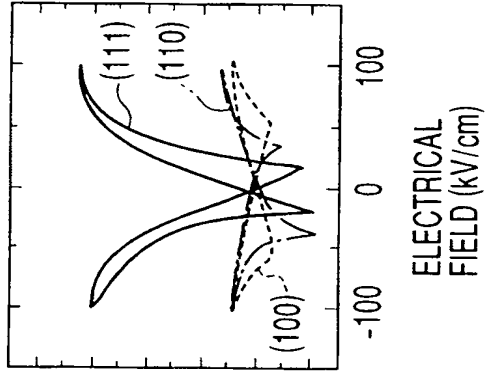
FIG. 12

y in $Pb(Zr_yTi_{1-y})O_3$

y=0.39



y=0.48



y=0.75

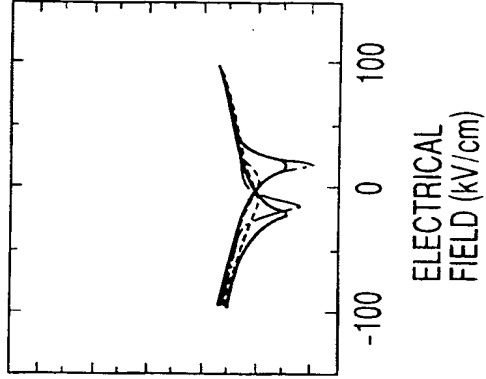


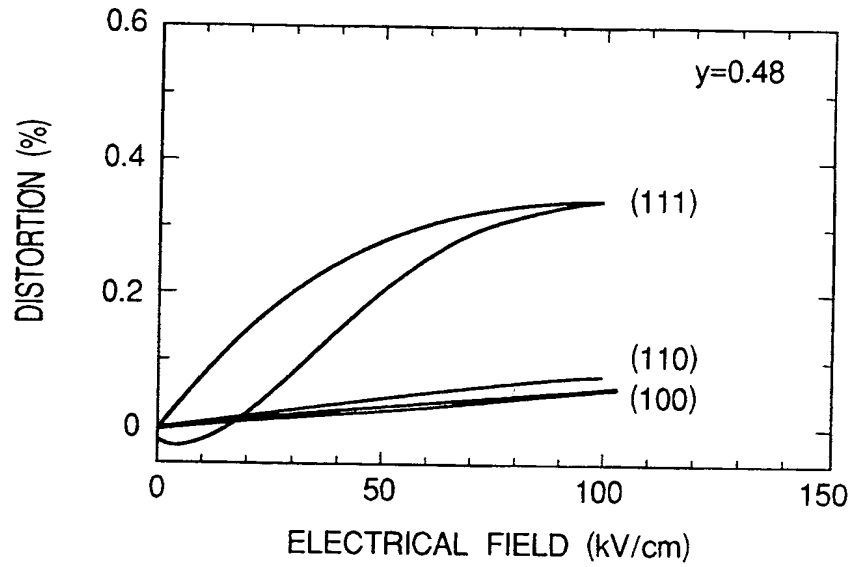
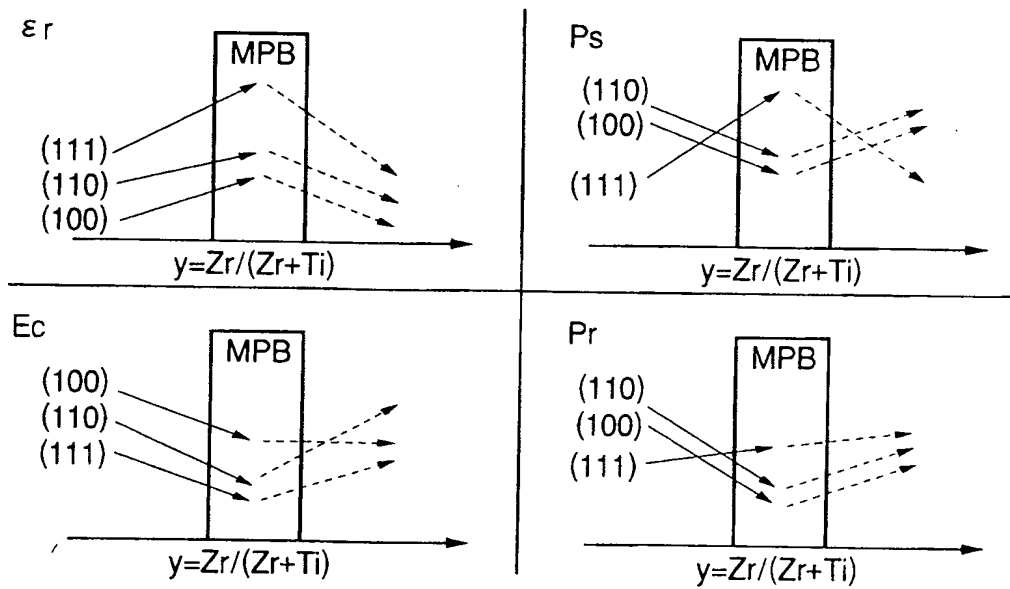
FIG. 13**FIG. 14**

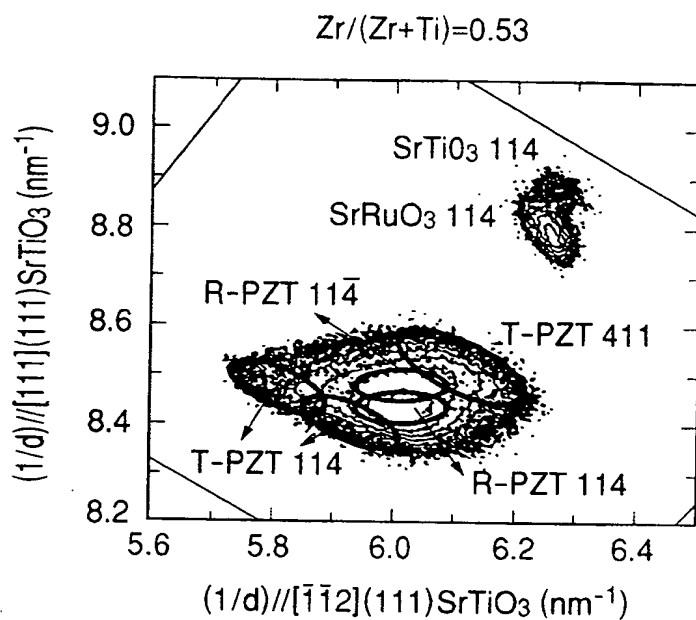
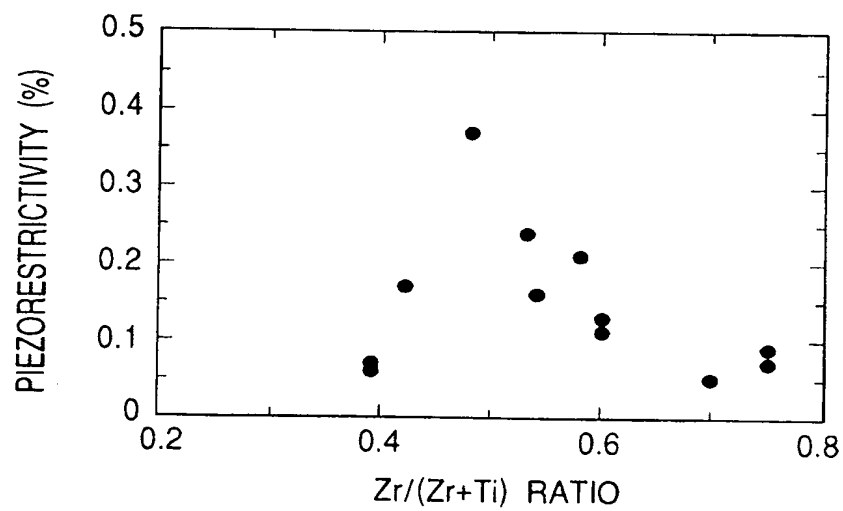
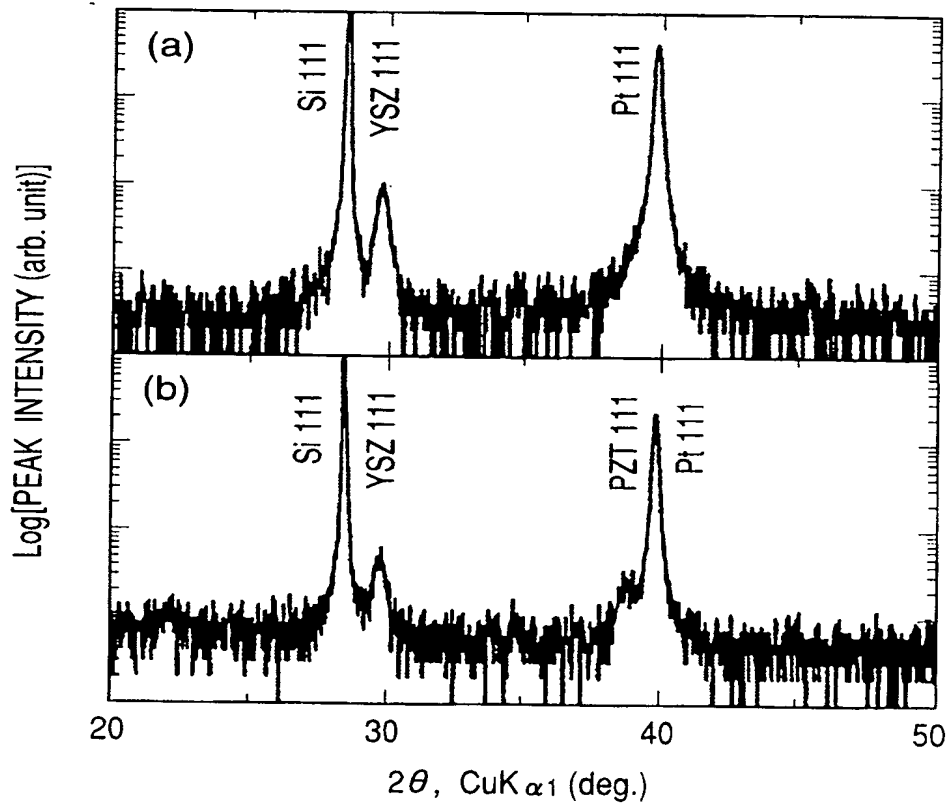
FIG. 15**FIG. 16**

FIG. 17

(a) (111)Pt//(111)YSZ//(111)Si SUBSTRATE
(b) (111)PZT//(111)Pt//(111)YSZ//(111)Si SUBSTRATE

FIG. 18

